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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,418	03/30/2004	Kerstin Mothes	543822005000	1266
	7590 09/06/2007		EXAMINER	
NATIONAL C	L & ASSOCIATES LLC ITY BANK BUILDING		SMITH, BRADLEY	
CLEVELAND	, OH 44114		ART UNIT PAPER NUMBER	
			2891	
)		
			MAIL DATE	DELIVERY MODE
			09/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/812,418	MOTHES ET AL.					
Office Action Summary	Examiner	Art Unit					
	Bradley K. Smith	2891					
The MAILING DATE of this communication app		orrespondence addres	s				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timular apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	N. sely filed the mailing date of this commu D (35 U.S.C. § 133).	•				
Status	•						
1) Responsive to communication(s) filed on 30 Ju	ily 2007.						
,							
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) <u>1-6</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) 1-6 is/are rejected.							
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	r election requirement.						
are easject to rective our and a	,						
Application Papers							
9) The specification is objected to by the Examine		Evernings					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct	•		121(d).				
11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119	·						
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
a) ⊠ All b) □ Some * c) □ None of:	priority arraor 50 5.5.5.3 1.5(2)	(4) 5: (.).					
1. Certified copies of the priority documents	s have been received.						
2. Certified copies of the priority documents	s have been received in Application	on No					
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stag	je				
application from the International Bureau							
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
•	·						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate					
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5)						
. 450, 110(0),111011 - 410		·					

Application/Control Number: 10/812,418

Art Unit: 2891

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Ahn (US 2002/0072198). Regarding claims 1 and 6, Ahn disclose forming a mask on a substrate; forming at least one trench in the substrate by using the mask; in the presence of the mask, selectively forming a first insulation material (129) only on the substrate in the trench to fill a lower part of the at least one trench in the substrate with the insulation material reducing the aspect ratio of the at least one trench mask; and applying a second insulation material (149) over an entire surface of the structure to fill the at least one trench in the substrate at least up to a top side of the mask (see figures 8 and 9). Regarding claim 2, Ahn disclose the substrate is silicon (100)[0030] the mask is silicon nitride [0030] and the first (129) and second (149) dielectric layers are silicon oxide. Regarding claim 3, Ahn disclose conditioning the dielectric layer [0035]. Regarding claim 4, Ahn disclose the second dielectric layer is formed by a HDP process [0038]. Regarding claim 5, Ahn disclose the second insulation material is planarized by CMP [0037].

Response to Arguments

Page 3

Application/Control Number: 10/812,418

Art Unit: 2891

Applicant's arguments with respect to claims 1-6 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley K. Smith whose telephone number is 571-272-1884. The examiner can normally be reached on 10-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) of 57/1-272-1000.

> Primary Examiner Art Unit 2891